

C.R. 4

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-093837

(43)Date of publication of application : 04.04.2000

(51)Int.Cl.

B03C 3/34

(21)Application number : 10-268568

(71)Applicant : YAMATAKE CORP

(22)Date of filing : 22.09.1998

(72)Inventor : SHIRAKASHI MASAKAZU

(54) AIR PURIFIER AND DUST COLLECTING CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce dust passing through a device together with air without being stuck to dust collecting pole plates.

SOLUTION: Air flow flows into a dust collecting cell 1 from an ionize part 2. At the dust collecting cell 1, an electrical field is generated between dust collecting pole plates 11 by the dust collecting pole plates 11 and a magnetic field in horizontal direction to the dust collecting pole plates 11 is generated between the dust collecting pole plates 11 by a coil 12. The charged dust receives the force in the dust collecting pole plates 11 direction by the electrical field and also the Lorentz's force in the dust collecting pole plates 11 direction by the magnetic fields. The charged dust is adsorbed to the dust collecting pole plates 11 by receiving these forces.

